

Application. No. 10/623,089
Amendment dated January 5, 2005
Reply to Office Action of October 8, 2004

Amendments to the Specification:

Kindly amend the specification as indicated:

Kindly replace the Abstract of the Disclosure, in its entirety, with the following rewritten Abstract.

-- A method of training a user to identify an object in an image, by querying a computer system having a lexicon of photo-interpreters to formulate object extraction rules. A database to be queried by an expert photo analyst is generated and a programming language is provided to generate extraction rules against that database. Graphical query results are displayed to determine whether an object has been identified. First, a hyperspectral image cube is represented by a set of fraction planes and texture transforms. Mean spectral reading values are obtained and used to build a pseudo multivariate distribution of the values. Recognizable features are then extracted from the hyperspectral image cube. A textural transform of a hyperspectral image cube results. The hundreds of image bands reduced to a few texture transforms can be used to train users of the image recognition system. --